### PATENT COOPERATION TREAT 1

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION	United States Patent and Trademark
Monator of Electron	Office
(PCT Rule 61.2)	(Box PCT)
	Crystal Plaza 2
	Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE
Date of mailing (day/month/year)	EIMTO ONIO D'AMERICAGE
09 July 1999 (09.07.99)	in its capacity as elected Office
	Anting Alaman and Stanford
International application No. PCT/US98/20578	Applicant's or agent's file reference FA/175A
International filing date (day/month/year)	Priority date (day/month/year)
01 October 1998 (01.10.98)	01 October 1997 (01.10.97)
Applicant	
GOODWIN, Brent, I. et al	
The designated Office is hereby notified of its election made.	
1. The designated office is neverly notified of its election made	·
X in the demand filed with the International Preliminary	Examining Authority on:
06 April 1999 (0	06.04.99)
in a notice effecting later election filed with the Interna	tional Bureau on:
_	
2. The election X was	
was not	
made before the expiration of 19 months from the priority da Rule 32.2(b).	te or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

R. Forax

Telephone No.: (41-22) 338.83.38

	DAI CD: 218197 J Jun				
	DOCKETING REQ'D: YES (NO)				
PATENT COOPERATION TREATATTY					
TAILNI COOLL	ICATION TELEVIAITY				
From the INTERNATIONAL SEARCHING AUTHORITY	MASTER				
From the INTERNATIONAL SEARCHING AUTHORITY	CPI				
To: JOHN S. CAMPBELL	PCT —				
W. L. GORE & ASSOCIATES, INC.	101				
551 PAPER MILL ROAD					
P. O. BOX 9206 NEWARK, DE 19714-9206	NOTIFICATION OF TRANSMITTAL OF				
NEWARK, DE 19/14-9206	THE INTERNATIONAL SEARCH REPORT				
	OR THE DECLARATION				
	(PCT Rule 44.1)				
	Date of Mailing				
	(day/month/year) 1 FEB 1999				
Applicant's or agent's file reference					
FA/175A	FOR FURTHER ACTION See paragraphs 1 and 4 below				
	• • • • • • • • • • • • • • • • • • •				
International application No.	International filing date (day/month/year)				
PCT/US98/20578	01 OCTOBER 1998				
Applicant					
W. L. GORE & ASSOCIATES, INC.					
W. E. GORE & ASSOCIATES, INC.					
1. X The applicant is hereby notified that the internationa	search report has been established and is transmitted herewith.				
Filing of amendments and statement under Artic					
The applicant is entitled, if he so wishes, to amend	the claims of the international application (see Rule 46):				
When? The time limit for filing such amendm	ents is normally 2 months from the date of transmittal of the				
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.					
Where? Directly to the International Bureau of WIPO					
34, chemin des Colombettes					
1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35					
· ·	·				
For more detailed instructions, see the notes on	the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under					
Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the					
applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
	arphiomic will be housed as soon as a decision to made.				
A Further action(a). The analysis for a 1 1 5 st 5 s					
4. Further action(s): The applicant is reminded of the following:					
Shortly after 18 months from the priority date, the internal	ational application will be published by the International Bureau.				
priority claim, must reach the International Bureau as	, a notice of withdrawal of the international application, or of the provided in rules 90 bis 1 and 90 bis 3, respectively, before the				
completion of the technical preparations for internation	nal publication.				
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant					
wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).					
	ust perform the prescribed acts for entry into the national phase				
before all designated Offices which have not been elect	ed in the demand or in a later election within 19 months from the				
priority date or could not be elected because they are	not bound by Chapter II.				
Name and mailing address of the ISA/US	Authorized officer				
Commissioner of Patents and Trademarks					
Box PCT Washington, D.C. 20231	TERRELI MORRIS				
_	Talanhana No. (703) 209 0661				
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0661				



## **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FA/175A	FOR FURTHER ACTION	see Notification of (Form PCT/ISA/220	Transmittal of International Search Report 0) as well as, where applicable, item 5 below.
International application No. PCT/US98/20578	International filing date 01 OCTOBER 1998	(day/month/year)	(Earliest) Priority Date (day/month/year) 01 OCTOBER 1997
Applicant W. L. GORE & ASSOCIATES, INC	2.		
This international search report consi	ing transmitted to the Intern	ational Bureau.	eport.
	d unsearchable (See Box I)		
2. Unity of invention is lack	ing (See Box II).		
3. The international application international search was can be a	rried out on the basis of the filed with the international furnished by the applicant so but not according to the basis of the basis o	sequence listing application. separately from the mpanied by a statemed the disclosure in the	international application, ent to the effect that it did not include matter e international application as filed.
4. With regard to the title, X	the text is approved as substhe text has been established		
5. With regard to the abstract,			
X	the text is approved as subtraction that text has been established Box III. The applicant may, search report, submit comm	, according to Rule within one month fr	38.2(b), by this Authority as it appears in om the date of mailing of this international
6. The figure of the drawings to be Figure No. 4	as suggested by the applicate because the applicant failed	nt. to suggest a figure	
	because this figure better of	iaracterizes the inve	ention.

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/20578

IPC(6)	SSIFICATION OF SUBJECT MATTER :B32B 31/00, 27/12		
	:156/160, 163; 428, 176, 182, 198 to International Patent Classification (IPC) or to both	h netional classification and IPC	
	LDS SEARCHED	a Hatter Champing and a C	
	documentation searched (classification system followe	ed by classification symbols)	,
	156/160, 163; 428, 176, 182, 198	·- ·, ·	
Documenta	tion searched other than minimum documentation to th	e extent that such documents are included	in the fields searched
		•	
Fil-ra-min a	to the state of th	<del></del>	
Electronic c	data base consulted during the international search (n	ame of data base and, where practicable	e, search terms used)
			ing to
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y, P	US 5,804,011 A (DUTTA et al.) 08 S and Drawings.	September 1998, see Abstract	1-83
Y, P	US 5,689,903 A (AUMANN) 25 Nove Drawings.	ember 1997, see Abstract and	1-83
Y	US 5,529,830 A (DUTTA et al.) 25 Drawings.	June 1996, see Abstract and	1-83
A	US 5,244,716 A (THORNTON et a Abstract.	1.) 14 September 1993, see	1-83
A	US 4,604,152 A (LIUKKO) 05 Augus	st 1986, see Drawings.	1-83
·		-	
Furth	ner documents are listed in the continuation of Box C	C. See patent family annex.	-
"A" doc	ecial categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	"T" later document published after the inter date and not in conflict with the appli the principle or theory underlying the	cation but cited to understand
"E" ear	lier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	
cite	cument which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other scial reason (as specified)	*Y* document of particular relevance; the	claimed invention cannot be
*O* doc	cument referring to an oral disclosure, use, exhibition or other ans	considered to involve an inventive combined with one or more other such being obvious to a person skilled in th	step when the document is documents, such combination
the	cument published prior to the international filing date but later than priority date claimed	"&" document member of the same patent	family
	actual completion of the international search	Date of mailing of the international sea 01 FEB 1999	rch report
Commission Box PCT	nailing address of the ISA/US ner of Patents and Trademarks	Authorized officer of terreel morris	
	o. (703) 305-3230	Telephone No. (703) 308-0661	

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

(i) the claim is unchanged;(ii) the claim is cancelled;

(iii) the claim is new;

(iv) the claim replaces one or more claims as filed;

(v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.:

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREAT

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: JOHN S. CAMPBELL W. L. GORE & ASSOCIATES, INC. 551 PAPER MILL ROAD P.O. BOX 9206 NEWARK, DE 19714-9206

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

Date of Mailing (day/month/year) 02 SEP 1999

Applicant's or agent's file reference

FA/175A

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority Date (day/month/year)

PCT/US98/20578

**01 OCTOBER 1998** 

**01 OCTOBER 1997** 

Applicant

W. L. GORE & ASSOCIATES, INC.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the 1. international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication 2. to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of 3. the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

Telephone No.

Form PCT/IPEA/416 (July 1992) \*



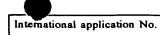
## **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FA/175A	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/m	onth/year)	Priority date (day/month/year)
PCT/US98/20578	01 OCTOBER 1998		01 OCTOBER 1997
International Patent Classification (IPC) of IPC(6): B32B 31/00, 27/12 and US Cl.			
Applicant W. L. GORE & ASSOCIATES, INC.			
Examining Authority and is  2. This REPORT consists of a  This report is also accombeen amended and are the (see Rule 70.16 and Sect	transmitted to the applicant of sheets.  panied by ANNEXES, i.e., sheet basis for this report and/or she tion 607 of the Administrative	ccording to ts of the desc ets containing	ription, claims and/or drawings which have g rectifications made before this Authority.
These annexes consist of a to	tal of sheets.		
IV Lack of unity of  V X Reasoned statemen citations and explain  VI Certain documents  VII Certain defects in the	nt of report with regard to no invention at under Article 35(2) with regard nations supporting such statem	velty, invent ard to novelty ent	ive step or industrial applicability  , inventive step or industrial applicability;
Date of submission of the demand	Date	of completion	of this report
06 APRIL 1999	07	AUGUST 19	999
Name and mailing address of the IPEA/L Commissioner of Patents and Tradem Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	arks B		PENHEAVER (500) 308-0661





### PCT/US98/20578 Basis of the report 1. This report has been drawn on the basis of Substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments): the international application as originally filed. the description, pages 1-36, as originally filed. pages NONE , filed with the demand. pages NONE , filed with the letter of \_\_\_\_\_ pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_ the claims, Nos. 1-83 \_\_\_\_\_, as originally filed. Nos. NONE \_\_\_\_, as amended under Article 19. \_\_\_\_, filed with the demand. Nos. NONE \_\_\_\_, filed with the letter of \_\_\_\_\_ Nos. NONE Nos. \_\_\_\_\_, filed with the letter of \_\_\_ sheets/fig 1-5, as originally filed. the drawings, sheets/fig NONE \_\_\_\_, filed with the demand. sheets/fig NONE , filed with the letter of \_\_\_\_\_ sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_ 2. The amendments have resulted in the cancellation of: the description, pages NONE NONE the claims, Nos. the drawings, sheets/fig NONE This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2(c)). 4. Additional observations, if necessary: NONE

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US98/20578

Claims   NONE	I. STATEMENT		•	
Inventive Step (IS)  Claims 1-83  Claims NONE  Industrial Applicability (IA)  Claims 1-83  Claims NONE  Claims NONE  CITATIONS AND EXPLANATIONS  Claims 1-83 meet the criteria set out in PCT Article 33(2)-(3), because none of the prior art documents of record teach or fairly suggest the claimed combination of a laminate and a substrate comprising: a substrate; and a laminate joined to the substrate at a seam, wherein the laminate has a first layer comprising a waterproof functional layer and a second layer laminated to the first layer and comprising at least a first component being stable to a first temperature and a second component having a melting point lower than the first temperature. Also, none of the prior art documents of record teach or fairly suggest the claimed embodiment of claims 77-80, wherein the seam has a transverse seam strength of greater than 3 pand wherein the stiffness of the seam is less than 50 mm <sup>-1</sup> .  Claims 1-83 meet the criteria set out in PCT Article 33(4), because the claimed laminate/substrate combination is useful for making an article of clothing.	Novelty (N)	Claims	1-83	· YE
Industrial Applicability (IA)  Claims  Claims	, ,	Claims	NONE	NO
Industrial Applicability (IA)  Claims  Claims	Instantian Chan (IC)	C1.	1.02	
Industrial Applicability (IA)  Claims  Claims	inventive Step (18)			
CITATIONS AND EXPLANATIONS  Claims 1-83 meet the criteria set out in PCT Article 33(2)-(3), because none of the prior art documents of record teach or fairly suggest the claimed combination of a laminate and a substrate comprising: a substrate; and a laminate joined to the substrate at a seam, wherein the laminate has a first layer comprising a waterproof functional layer and a second layer laminated to the first layer and comprising at least a first component being stable to a first temperature and a second component having a melting point lower than the first temperature. Also, none of the prior art documents of record teach or fairly suggest the claimed embodiment of claims 77-80, wherein the seam has a transverse seam strength of greater than 3 p and wherein the stiffness of the seam is less than 50 mm <sup>-1</sup> .  Claims 1-83 meet the criteria set out in PCT Article 33(4), because the claimed laminate/substrate combination is useful for making an article of clothing.				
Claims 1-83 meet the criteria set out in PCT Article 33(2)-(3), because none of the prior art documents of record teach or fairly suggest the claimed combination of a laminate and a substrate comprising: a substrate; and a laminate joined to the substrate at a seam, wherein the laminate has a first layer comprising a waterproof functional layer and a second layer laminated to the first layer and comprising at least a first component being stable to a first temperature and a second component having a melting point lower than the first temperature. Also, none of the prior art documents of record teach or fairly suggest the claimed embodiment of claims 77-80, wherein the seam has a transverse seam strength of greater than 3 p and wherein the stiffness of the seam is less than 50 mm <sup>-1</sup> .  Claims 1-83 meet the criteria set out in PCT Article 33(4), because the claimed laminate/substrate combination is useful for making an article of clothing.	Industrial Applicability (IA)	Claims	1-83	YE
Claims 1-83 meet the criteria set out in PCT Article 33(2)-(3), because none of the prior art documents of record teach or fairly suggest the claimed combination of a laminate and a substrate comprising: a substrate; and a laminate joined to the substrate at a seam, wherein the laminate has a first layer comprising a waterproof functional layer and a second layer laminated to the first layer and comprising at least a first component being stable to a first temperature and a second component having a melting point lower than the first temperature. Also, none of the prior art documents of record teach or fairly suggest the claimed embodiment of claims 77-80, wherein the seam has a transverse seam strength of greater than 3 p and wherein the stiffness of the seam is less than 50 mm <sup>-1</sup> .  Claims 1-83 meet the criteria set out in PCT Article 33(4), because the claimed laminate/substrate combination is useful for making an article of clothing.	(2.1)		NONE	NO.
Claims 1-83 meet the criteria set out in PCT Article 33(2)-(3), because none of the prior art documents of record teach or fairly suggest the claimed combination of a laminate and a substrate comprising: a substrate; and a laminate joined to the substrate at a seam, wherein the laminate has a first layer comprising a waterproof functional layer and a second layer laminated to the first layer and comprising at least a first component being stable to a first temperature and a second component having a melting point lower than the first temperature. Also, none of the prior art documents of record teach or fairly suggest the claimed embodiment of claims 77-80, wherein the seam has a transverse seam strength of greater than 3 p and wherein the stiffness of the seam is less than 50 mm <sup>-1</sup> .  Claims 1-83 meet the criteria set out in PCT Article 33(4), because the claimed laminate/substrate combination is useful for making an article of clothing.		•		<u></u>
NEW CITATIONS	Claims 1-83 meet the criteria set out in PC		ecause the claimed laminate/su	ostrate combination is useful for
	making an article of clothing.			
NONE	NEW CITATIONS			
	NONE			
	· •			
		•		
				•
		·		

### PATENT COOPERATION TREATY

# TY REC'D 0 7 SEP 1999

## **PCT**

WIPO PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



International application No.  PCT/US98/20578  101 OCTOBER 1998  101 OCTOBER 1997  International Patent Classification (IPC) or national classification and IPC IPC(6): B32B 31/00, 27/12 and US Cl.: 156/160, 163; 428/176, 182, 198  Applicant W. L. GORE & ASSOCIATES, INC.	h have
PCT/US98/20578 01 OCTOBER 1998 01 OCTOBER 1997  International Patent Classification (IPC) or national classification and IPC	h have
International Patent Classification (IPC) or national classification and IPC IPC(6): B32B 31/00, 27/12 and US Cl.: 156/160, 163; 428/176, 182, 198  Applicant	h have
	h have
	h have
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.	h have thority.
2. This REPORT consists of a total of sheets.	h have thority.
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which been amended and are the basis for this report and/or sheets containing rectifications made before this Au (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).	
These annexes consist of a total of sheets.	1
3. This report contains indications relating to the following items:	
I X Basis of the report	
II Priority	
III Non-establishment of report with regard to novelty, inventive step or industrial applicability	,
IV Lack of unity of invention	
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applic citations and explanations supporting such statement	ability;
VI Certain documents cited	
VII Certain defects in the international application	
VIII Certain observations on the international application	
Date of submission of the demand  Date of completion of this report	
06 APRIL 1999 07 AUGUST 1999	
Name and mailing address of the IPEA/US  Authorized officer	
Commissioner of Patents and Trademarks Box PCT BLAINE R. COPENHEAVER	
Washington, D.C. 20231  Facsimile No. (703) 305-3230  Telephone No. (703) 308-0661	



### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US98/20578

I. Basis of th	ne report		
1. This report has 1	been drawn on the	basis of Substitute sheets w	hich have been furnished to the receiving Office in response to an invitation ed" and are not annexed to the report since they do not contain amendments):
		l application as origin	
X	the description,		, as originally filed, filed with the demand.
			, filed with the letter of
		• •	, filed with the letter of
×	the claims,		_ , as originally filed.
			_ , as amended under Article 19.
<u> </u>			_ , filed with the demand.
			_ , filed with the letter of
:		Nos.	_ , filed with the letter of
[X]	the drawings,	sheets/fig 1-5	, as originally filed.
ت ا	-	sheets/fig NONE	, filed with the demand.
		sheets/fig NONE	, filed with the letter of
		sheets <del>/fig</del>	, filed with the letter of
3. This to go	the claims, the drawings, report has been e	sheets/fig NONE stablished as if (some of osure as filed, as indicate	the amendments had not been made, since they have been considered at in the Supplemental Box Additional observations below (Rule 70.2(c)).
NONE			
	•		



International application No.

PCT/US98/20578

Inventive Step (IS)  Claims NONE  Claims 1-83  Claims NONE  NONE  NO	Inventive Step (IS)  Claims  C	Inventive Step (IS)  Claims 1-83 YI Claims NONE  Industrial Applicability (IA)  Claims 1-83 YI Claims NONE  Industrial Applicability (IA)  Claims 1-83 NONE  Claims 1-83 meet the criteria set out in PCT Article 33(2)-(3), because none of the prior art documents of record teach or fairly suggest the claimed combination of a laminate and a substrate comprising: a substrate; and a laminate joined to the substrate at a seam, wherein the laminate has a first layer comprising a waterproof functional layer and a second layer laminated to the first layer and comprising at least a first component being stable to a first temperature and a second component having a melting point lower than the first temperature. Also, none of the prior art documents of record teach of fairly suggest the claimed embodiment of claims 77-80, wherein the seam has a transverse seam strength of greater than 3 pand wherein the stiffness of the seam is less than 50 mm <sup>-1</sup> .  Claims 1-83 meet the criteria set out in PCT Article 33(4), because the claimed laminate/substrate combination is useful for making an article of clothing.  NEW CITATIONS ————  NEW CITATIONS ————  NEW CITATIONS ————————————————————————————————————	STATEMENT			
Inventive Step (IS)  Claims  NONE  None  Claims  None  None  Claims  None  None  Claims  None  Claims  None  N	Inventive Step (IS)  Claims  NONE  None  Claims  None  None  None  Claims  None  N	Inventive Step (IS)  Claims  NONE  None  Claims  None  None  Claims  None  None  Claims  None  Claims  None  N	Novelty (N)	Claims	1-83	YI
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Industrial Applicability (IA)  Claims	Industrial Applicability (IA)  Claims	Industrial Applicability (IA)  Claims	Inventive Step (18)			NO
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NEW CITATIONS	NEW CITATIONS	NEW CITATIONS	and wherein the stiffness of the seam is les	s than 50 mm <sup>-1</sup> .		
			making an article of clothing.			



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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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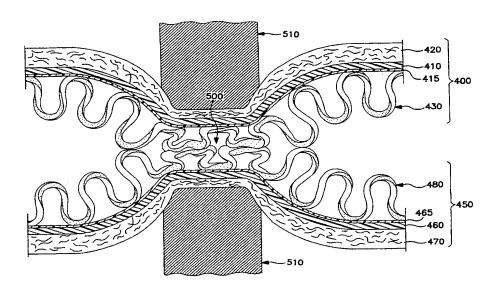
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(54) Title: SEAM JOINING A WATERPROOF LAMINATE WITH TEXTILE LAYER MADE OF MULTI-COMPONENT YARNS



#### (57) Abstract

The invention discloses a textile laminate (1, 400, 450) with a first layer (5) comprising a waterproof and preferably breathable functional layer (10, 20) and a second layer (30) comprising at least a first component and a second component. The first component is stable to a first temperature and the second component melts at a lower second temperature. In one embodiment of the invention, the first component is polyester and the second component may be a thermoplastic such as copolyester, polyamide, copolyamide or polyethylene. The textile laminate (1) is particularly advantageous when two of such laminates (1, 400, 500) have to be joined or fused together. In this case a waterproof seam is created at the seam (500) between the two laminates (1, 400, 500).

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### INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/20578

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	SIFICATION OF SUBJECT MATTER		
US CL.	B32B 31/00, 27/12 156/160, 163; 428, 176, 182, 198 International Patent Classification (IPC) or to both na	tional classification and IPC	
	DS SEARCHED		
	ocumentation searched (classification system followed b	y classification symbols)	
	156/160, 163; 428, 176, 182, 198	•	
Documentati	ion searched other than minimum documentation to the ex	stent that such documents are included	in the fields searched
Electronic d	ata base consulted during the international search (nam	e of data base and, where practicable	, search terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appr	ropriate, of the relevant passages	Relevant to claim No.
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Fur	ther documents are listed in the continuation of Box C	. See patent family annex.	
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